LIMA LOCOMOTIVE WORKS
INCORPORATED

LIMA, OHIO, U. S. A.

GEARED LOCOMOTIVE

Class 70-3 TRUCK-SPECIAL **Dept.** DRAWING ROOM

CONSTRUCTION ORDER No.	SHOP NUMBERS	DATE
398	3232	7-10-23

FORM LED 60

398
70-3
3232

398
3232
70-3 TRUCK

ADDITIONS AND CHANGES

ADDITIONS

DATE	Page	ITEMS	Check
7-18-23	4	31-32-33-34-36	
" " "	9	8 To 22-24-27 To 42	
7-20-23	1	31.	
8-2-23	10	42 To 61	
" " "	11	1-2-5-6-7-9-10-11-15-16-19-21 To 25	
" " "	3	13-14-47-48-53-54-56-57.	
" " "	4	3-4	
8-9-23	10	3	
8-15-23	8	56-57-58-59	
" " "	12	25 To 31-33-39-40-41-42-46 To 50-55 To 61	
" " "	14	58	
" " "	13	30	
" " "	18	42-48-49-50-51-55 To 59	
" " "	24	26	
" " "	25	5	
8-16-23	13	29-40-41-42-43-28-27	
" " "	18	41-43	
8-24-23	10	1	
" "	12	34-35-36-37	
8-25-23	16	25.	
9-11-23	22	59	

ADDITIONS

DATE	Page	ITEMS	Check

CHANGES

DATE	Page	ITEMS	Check
7-16-23	8	50	
7-19-23	19	38	
" " "	24	52	
" " "	25	1	
7-20-23	27	40	
8-2-23	10	50	
" " "	24	44	
8-3-23	13	61	
8-6-23	2	34	
8-7-23	18	20-21	
8-15-23	14	56	
8-16-23	23	37 To 48	
" " "	13	32	
8-17-23	27	41, 42	
8-23-23	24	44	
" " "	10	50	
8-27-23	23	61	
9-4-23	23	38	
9-5-23	18	27	
9-6-23	19	32-34	

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 10—ASH PAN								
M	1	ASH PAN	1	11975 LINE 1	PLATE	—	—	—	—	—
M	2	" Pan Material Bill	1 SET	M.O. 2705-A		—	—	—	—	—
	3	" " Hopper								
	4	" " Slide								
	5	" " Door Frame								
	6	" " Slide Frame								
	7	" " Door Links								
	8	" " Damper Rigging								
M	9	" " " Bell Crank	1	11976		119F70				
M	10	" " " " " Fulcrum	1	"	BAR STOCK	—				
M	11	" " " Hinge	4	5½" × 2" × 7½"	HALF BUTT	—				
	12	" " " " Lug	—							
	13	" " " " Bar	—							
M	14	" " " Lift—Front	1	11976		119F83				
M	15	" " " " —Rear	1	"		119F82				
M	16	" " " Lug	1	"		119F78				
M	17	" " " "	1	"		119F79				
M	18	" " " Rod Jaw	1	"		119F66				
M	19	" " " " "	1	"		119F18				
	20	" " Netting Frames								
	21	" " Slide Rigging								
	22	" " " Rod								
	23	" " CLEANING ~~DOOR~~ DOOR CHAIN	~~2~~	~~112A5022~~		~~112A5020~~	—	—	—	—
	24	" " Shaft Bearing	—							
M	25	" " Cleaning Door Hinge	4	4½" × 1¾" × 6"	HALF BUTT					
	26	" " ~~Bell Crank Bracket~~ LOCK PLATE	~~2~~	~~112A5023~~	~~1" × 8½" × 12"~~					
M	27	" " DAMPER RIGGING PIN	1	⅝" RD. 1½" LONG	DRILL TO SUIT E. S.					
M	28	" " " " "	1	⅝" " 1¾" "						
M	29	" " " " "	2	⅝" " 2" "						
	30	GROUP 11—AXLES								
M	31	AXLE	6	112A5020		112A5020	—	—	—	—
	32	"	—							
	33	GROUP 12—BELL								
M	34	BELL	1	12511		—	—	—	12-25	—
M	35	" Frame	1	12541		—	12-36	—	—	—
	36	" " Base	—							
M	37	" Yoke	1	12512 LINE 1			12-27	—	—	—
M	38	" " Nut	1	122A5008			12-40	—	—	—
M	39	" " Pin	1	12541	BAR STOCK		—	—	—	—
M	40	" Crank	1	"			12-37	—	—	—
M	41	" Tongue	1	122A5006			—	—	—	12-35
M	42	" " Fulcrum	1	122A5007		122A5007	—	—	—	—
	43	" Ringer Bracket	—							
M	44	" Rope ~~Details~~ SCREW EYE	3	TO SUIT ERECT. SHOP	PURCHASED		—	—	—	
M	45	" " Sheave	2	122A5019			12-21			
M	46	" " " Chair	1	122A5022			12-20	—	—	
M	47	" " " Frame	1	122A5020			12-18	—	—	
M	48	" " Thimble	1	122A4	BAR STOCK		—	—	—	
M	49	" " " Washer	1	"			—	—	—	
	50	" Ringer								
	51									
	52	GROUP 13—BOILER								
M	53	Boiler Plan	1	139P5001						
	54	" Sections	—							
M	55	" Material Bill	1 SET	13M.O.5026						
M	56	" Bracing List	1 "	139P5001						
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 14—BOILER DETAILS								
✓	1	Boiler Brace Rod Ends	6	11762 SET 2		117 F 202	Z	Z	Z	Z
✓	2	" " " "	6	310 D 208		310 S 150				
✓	3	" " " "	16	11754 SET 12		117 F 201				
	4	" " " "	—							
	5	" " " "	—							
✓	6	" " " Lugs	2	11762 SET 10		CO. 11762 SET 10	Z	Z	Z	Z
✓	7	" " " "	2	310 D 263		310 S 112				
✓	8	" " " "	6	142 A 5001		14 A 5001				
	9	" " " "	—							
✓	10	" " " Jaws	6	310 D 164		310 S 105	Z	Z	Z	Z
✓	11	" " " "	22	310 D 148		310 S 64				
✓	12	" " " "	6	142 A 5001		310 S 266				
✓	13	" " " "	2	310 D 263		310 S 109				
	14	" " " "	Z							
	15	" " " "								
	16	" Sling Stay								
	17	" " "								
✓	18	" Throat Brace	6	11766 LINE 1		117 F 215	—	—	—	—
	19	" " "	Z							
	20	" Crown Bars								
	21	" " Roof Irons								
✓	22	" Stay Bolt	209	4535 LINE 1		4535 LINE 1	—	—	—	—
✓	23	" " "	396	" " 2		" " 2	—	—	—	—
✓	24	" Radial Stay	120	11721 LINE 2		11721 LINE 2	Z	Z	Z	Z
✓	25	" " "	102	11745		11745				
✓	26	" " "	16	1/8" GATES-STYLE D	PURCHASED					
✓	27	" ~~Cross Stay~~ " SLEEVES	16	" " H	PURCHASED					
✓	28	" ~~Tee Bar~~ " CAPS	16	" " D	PURCHASED					
✓	29	" TEE BAR	2	22 1/2" LONG.	6"x1"x5 1/4"x1 1/4"					
✓	30	" " "	2	20" "	6"x1"x5 1/4"x1 1/4"					
✓	31	" " "	2	13" "	6"x1"x5 1/4"x1 1/4"					
✓	32	" " "	2	6 1/2" "	6"x1"x5 1/4"x1 1/4"					
✓	33	" " "	1	36" "	6"x1"x5 1/4"x1 1/4"					
✓	34	" Mud Ring	1	143 B 5007		—	—	—	14-108	—
	35	" Tube Sheet Ring	—							
	36	" " " Studs	—							
✓	37	" Smoke Box Ring	1	139 P 5001		14 D 5000	—	—	—	—
	38	" " " "	—							
✓	39	" Tube (small)	190	2" O.D. #12 B.W.G. 11'-1" LONG.		—	—	—	—	—
	40	" Flue (large)	—							
	41	" Combustion Tubes	—							
✓	42	" Tube Setting	1 SET	11632 STYLE 4		—	—	—	—	—
	43	" Flue "	—							
✓	44	" Test Plate	1	420 D 449		—	—	—	—	—
	45									
	46	**GROUP 15—BOLTS AND NUTS**								
	47									
	48	**GROUP 18—BRACKETS**								
	49	Air Gauge Bracket	—							
✓	50	Steam Gauge Bracket	1	182 B 5101		—	18-17	—	—	—
✓	51	Bottom Bracket	1	184 E 5003				18-28		
✓	52	" " Caps	4	8730 SET 3				18-32		
✓	53	" " Bearing—Top	4	182 A 5038			18-62			
✓	54	" " " —Bottom	4	182 A 5034			18-61			
✓	55	" " " Wedge	4	182 A 5015			18-31			
✓	56	" " Wedge Screw	4	182 A 5022		182 A 5022				
✓	57	" " " " Nut	4	"	BAR STOCK	—				
✓	58	" " " " Cap	4	182 B 5075		182 B 5075				
✓	59	Steam Bracket	1	184 B 5001		—	18-19-U			
	60	" " —Back	—							
✓	61	" " Brace	1	182 A 5071		182 A 5071	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 20—BRAKE EQUIPMENT								
M	1	BRAKE CYLINDER	1	13533 LINE 6		—	20-166	—	—	—
	2	" "	—							
M	3	" " Head	2	202 A 5094		—	20-60	—	—	—
	4	" " "	—							
M	5	" " Stuff. Box Gland	2	202 A 5088		—	20-65	—	—	—
	6	" " " " "	—							
M	7	" Piston	2	202 A 5113		—	20-47	—	—	—
	8	" "	—							
M	9	" " Rings, Mat'l For	4	653 D 5002	Pot Pattern	—	65-25	—	—	—
M	10	" " " " "	2	3176 LINE 4	" "	—	65-107	—	—	—
	11	" " " " "	—		" "					
	12	" " " " "	—		" "					
	13	" " Rod—Front	1	202 A 5029	46½"	202 A 6029	—	—	—	—
	14	" " " —Rear	1	202 K 5029	45½"	202 K 5029	—	—	—	—
	15	" " "	2							
	16	" " " Jaw	—							
M	17	" Hollow Piston Rod	1	24" x 2 5/16 DIA.	TURN FROM 2" PIPE	—	—	—	—	—
M	18	" " " "	1	30" x 2 5/16 "		—	—	—	—	—
	19	" Strut	2							
	20	" "	—							
	21	" Reservoir Blocks	—							
	22	" " Support	—							
	23	" " "	—							
	24	" " "	—							
	25	" " " Strap	—							
	26	" Pump Bracket	—							
	27	" " "	—							
	28	" Cyl. Lever Fulcrum	—							
	29	" Equipment	—							
E	30	" Valve	1	203 A 5010			—			
E	31	" " Base	1	202 A 5138			20-38			
E	32	" " Cap	1	202 A 5137			20-39			
E	33	" " Slide Valve	1	202 A 5133			20-40			
E	34	" " Stem	1	202 A 5136	BAR STOCK		—			20-44
E	35	" " Handle	1	202 A 5139						
E	36	" " " Latch	1	202 A 5134						
E	37	" " Stuffing Box	1	202 A 5132	STICK BRASS					
E	38	" " " " Nut	1	"	" "					
E	39	" " " " Follower	1	"	" "					
E	40	" " Bracket	1	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP				
	41	" " " Brace	—							
	42	" Distributing Valve Bracket	—							
M	43	" Relief Valve	3	202 A 5140			20-71			
M	44	" " " —Top	3	"	STICK BRASS		—			
M	45	" " " —Base	3	"			20-73			
	46	" —Frame Body	—							
M	47	" Lever—Frame	1	488 A 5035		20 D 5065				
M	48	" " "	1	"		20 L 5006				
	49	" " "	—							
	50	" " "	—							
	51	" " "	—							
	52	" " "	—							
M	53	" " Fulcrum—Frame PLATE	2	13442 SET 8	¾" x 4" x 5½"	—	—	—	—	—
M	54	" " " " STUD	2	"		13442 SET 8	—	—	—	—
	55	" " " "	—							
M	56	" " Guides "	1	488 A 5035		134 F 286	—	—	—	—
M	57	" " " "	1	"		134 F 287	—	—	—	—
	58	" " " "	—							
	59	" " " "	—							
	60	" " " "	—							
	61	" " " "	—							

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 20—BRAKE (Cont.)								
	1	Brake Cylinder Bracket—Frame	—							
	2	" " " "	—							
W	3	" Rods "	1	488A5035	LENGTH TO SUIT E.S.	20V5003	—	—	—	—
W	4	" " "	1	"	" " " " "	20W5003	—	—	—	—
	5	" " "	—							
	6	" " "								
	7	" " "								
	8	" " "								
W	9	" TRUCK	1		LENGTH TO SUIT	134F163	—	—	—	—
W	10	" Beam— Truck	6	202C 5208 A-9809 LINE B		—		—		
W	11	" " Fulcrum "	6	202A5163		—		20-87		
W	12	" " Safety Chain "	8			98F ~~XX~~ 388				
W	13	" " Loop "	4			98F ~~XX~~ 198				
W	14	" Hanger "	16 8			~~98F115~~ 20-T-5027 98F ~~XX~~ 20-U-5027				
W	15	" " Lug "	8	202A5105		—		20-6		
W	16	" Heads "	12	203B5008				20-79		
W	17	" Shoes "	12	202A5104	(S) PAT. 20-8 PURCHASED					
W	18	" Lever "	1	9861 SET 10		98F163				
W	19	" " "	1	"		~~20A5101~~				
W	20	" " "	1	"		~~20A5101~~				
W	21	" " "	1	"		98F160				
W	22	" " "	1	"		98F161				
W	23	" " "	1	"		98F162				
W	24	" Rod "	3	9843 SET 5		98F32				
W	25	" " "	4	"		~~98-F-150~~ 98F156				
W	26	" " "	~~2~~	"		98F ~~151~~ 153				
W	27	" " "	2	"		98F155				
W	28	~~Truck Bolster Lever Fulcrum~~	3	"		98F46				
W	29	" " ~~Stop Lug~~ PINS	4 14	202C5016 202M5016		202C5016 202M5016				
	30	**GROUP 21—BUMPERS**								
W	31	End Timber Arrangement—Front	1	214A5006	WOOD	—				
W	32	" " " —Rear	1	213A5018	WOOD					
W	33	" " Channels—Front	1	214A5006	15"-33# CHANNEL 102" LONG	—				
W	34	" " " —Rear	1	213A5018	15"-33# CHANNEL 102" LONG					
	35	" " Drawhead Blocks	—	~~213A5018~~						
W	36	Push Pole Pocket	4	212A5002		—	21-7	—	—	—
	37									
	38									
	39	**GROUP 22—CAB**								
W	40	Cab	1	223A5024	PLATE					
W	41	" Material Bill	1 SET	22M05017						
	42									
	43									
	44	**GROUP 23—CAB DETAILS**								
W	45	Cab Arm Rest	2	11165 LINE 3	202C5032					
	46	" Joint Plate	—							
	47	" Strap	—							
W	48	" Saddle Angle	1							
	49	" " Plate	—			111-F-27				
	50	" Sash Fixture	—							
W	51	" Storm Window	1	232E5012						
W	52	" " "	1	232L5012						
W	53	" " " Adjusting Bar	1	232A5010		232A5010				
	54	" " " " Plate								
	55	" Awning								
	56	" Curtain								
	57	" " Rod								
	58	" Door Fixture								
W	59	" " " Clamp	2	232A5019		—				23-3
W	60	" " " " Screw	2	232A5018		—				23-2
W	61	" " " " Slide Bar	2	232A5023		1/4" × 3/4" × 28"				

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	M
		GROUP 23—CAB DETAILS (Cont.)								
	1	Cab Door Fixture Rod	—							
	2	" Ventilator	1	A-11100	PLATE	—	—	—	—	—
	3	" " Fixture	—							
	4	" " Handle	1	11145		111 F 30	—	—	—	—
	5	" " " Hinge	1	"		111 F 31	—	—	—	—
	6	" " " Latch	1	A-11100		111-F-155	—	—	—	—
	7	" " Rod	—							
	8	" Seat—Right	1	232 A 5021	WOOD	—	Z	Z	Z	Z
	9	" " —Left	1	"		—				
	10	" " Back Support	2	"		1/4 x 3" x 24"				
	11	" " Cushion								
	12	" " Post								
	13	" " Hinge								
	14	" " Rod								
	15	" Tool Box	1	A-11154		—	—	—	—	—
	16	" DOOR LOCKS	1	YALE NIGHT RIM LATCH - PURCHASED		—	—	—	—	—
	17									
	18									
	19									
	20	GROUP 26—COCK AND VALVES								
	21	Air Sander Valve	—							
	22									
	23	Angle Valve								
	24	" " Cap								
	25	" " Stem								
	26	" " Gland								
	27	" " Nut								
	28									
	29	Ash Pan Cock	—							
	30									
	31	Bell Ringer Valve	—							
	32									
	33	Blower Valve	1	3/4 CRANE #1813 & 3/4 IRON PIPE UNION			—	—	—	—
	34	" " Cap								
	35	" " Stem								
	36	" " Gland								
	37	" " Nut								
	38	Blow Off Cock	2	1 1/2 CRANE		—	—	—	—	—
	39	" " " Cap								
	40	" " " Plug								
	41	" " " Nut								
	42	" " " Washer								
	43	" " Extension								
	44	Blow-off Valve								
	45	Injector Starting Valve	2	1 1/2" CRANE #1811 & 1 3/4 C.P. UNION		—	—	—	—	—
	46	" " " Cap								
	47	" " " Stem								
	48	" " " Gland								
	49	" " " Nut								
	50	Brake Stop Valve—Steam	1	3/4 ANGLE - CRANE #1811 & 3/4 IRON PIPE UNION		—	—	—	—	—
	51	" " " —Air	—							
	52	" " " —Inter.	—							
	53									
	54	Cinder Swipe Valve	—							
	55									
	56	Cylinder Cock	3	263 A 5001		Z	Z	Z	—	26-8
	57	" " Nut	3	"					26-12	—
	58	" " Shank	3	"					Z	26-10
	59	" " Valve	6	"	STICK BRASS					—
	60	" " Cap	3	262 A 5004	FURNISH NIPPLE				26-20?	—
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 26—COCKS & VALVES (Cont.)								
	1	Drip Valve Brake Exhaust Drain	—							
✓	2	" " Check Pipe "	2	1/2" GLOBE	CRANE #1807	Z	Z	Z	Z	Z
✓	3	" " Exhaust " "	1	1/2" "						
✓	4	" " Steam Chest "	1	1/2" "						
✓	5	" " Water Gauge "	1	1/4" "						
	6									
✓	7	Drip Cock—Brake Exhaust Drain	1	1/4" AIR COCK		—	—	—	—	—
	8	" " — " " " —Air	—							
	9	" " —Check Pipe Drain	—							
✓	10	" " —Fuel Sprinkler Drain	1	1/4" AIR COCK		—	—	—	—	—
✓	11	" " —Siphon Drain	1	3/8" " "		—	—	—	—	—
	12	" " —Oil Heater Drain	—							
✓	13	Generator Valve	1	3/4" CRANE #1811 & 3/4" IRON PIPE UNION		—	—	—	—	—
	14	" " Cap	Z							
	15	" " Stem								
	16	" " Gland								
	17	" " Nut								
	18									
	19	Feed Cock	—							
	20	Heater Valve	—							
	21									
✓	22	Lubricator Valve	1	3/4" CRANE #1811 & 1" G.P. UNION		—	—	—	—	—
	23	" " Extension	Z							
	24	Oil Burner Valves								
	25	" Heater "								
	26	" Tank Blow-Back Valve								
	27	" " Heater Valve								
	28	Oil Cock								
	29	" " Cap								
	30	" " Plug								
	31	" " Spring								
	32	" " Washer								
	33									
	34	Plug Cock—Injector Check	Z							
	35	" " Cap								
	36	" " Plug								
	37	" " Nut								
	38	" " Washer								
	39									
	40	Port Cock	—							
	41									
✓	42	Siphon Valve	1	1 1/2" CRANE #1811 & 1 1/2" IRON PIPE UNION						
	43									
✓	44	Sprinkler Valve	1	1/2" GLOBE - CRANE #1807						
	45	" " Cap	Z							
	46	" " Stem								
	47	" " Gland								
	48	" " Nut								
	49									
	50									
✓	51	Steam Gauge Cock	1	1/4" CYL. COCK LEVER HANDLE & 3/8 G.P. UNION						
	52									
✓	53	Steam Gauge Cock Extension	1	11464 STYLE 1 STICK BRASS						
	54									
	55	Tire Sprinkler Valve	—							
	56									
	57	Through Valve	Z							
	58	" " Cap								
	59	" " Stem								
	60	" " Gland								
	61	" " Nut								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 27—COCKS AND VALVES (GAUGE, WATER AND SPECIAL)								
M	1	Gauge Cock	3	3/4" NATHAN TYPE 272A1001 EXCEPT 3/4" PIPE THD.						
	2	" " Valve								
	3	" " Cap								
	4	" " Stem								
	5	" " Gland								
	6	" " Nut								
	7									
	8									
	9	Gauge Cock Extension	—							
M	10	" " Dripper	1	272A5006		—	27-38	—	—	—
	11									
	12									
M	13	WATER GAUGE	1	#9 REFLEX						
M	14	" " Upper Fitting	1	3/4 NATHAN						
	15	" " " " Cap								
	16	" " " " Valve								
	17	" " " " Stem			THD. 3/4 PIPE SIZE					
	18	" " " " Gland			LENGTH TO SUIT E. SHOP.					
	19	" " " " Nut								
	20	" " " " Washer								
M	21	" " Lower Fitting	1	3/4 NATHAN						
	22	" " " " Cap								
	23	" " " " Valve								
	24	" " " " Stem								
	25	" " " " Gland								
	26	" " " " Nut								
	27	" " " " Washer								
M	28	" " Cock Elbow	1	272B5003		—	—	—	27-9	—
M	29	" " Lamp Bracket	1	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP	—	—	—	—
	30	" " Marker "								
	31	" " " " Clamp								
	32	" " "								
	33	Water Gauge Extension								
	34	Water Gauge Cock								
	35									
	36	**GROUP 28—COCK RIGGING**								
	37									
M	38	Blow-off Cock Rigging	1 SET	A-11405			—			
M	39	" " " Handle	1	732A5027			73-6			
M	40	" " " Rod	1	3/8 PIPE TO SUIT ERECT. SHOP						
	41	" " " "	—							
M	42	" " " " Jaw	1	A-11405		114 F 4	—	—	—	—
	43	" " " Lever	—							
	44	" " " " Fulcrum	—							
	45									
M	46	Cylinder Cock Rigging	1 SET	7320		—	—	—	—	—
	47	" " Eye Bolt	—							
M	48	" " Hand Lever	1	7322		111-F-10				
M	49	" " " " Fulcrum	1	"		73-F-3				
M	50	" " Rod	1	7320	1/4" PIPE	FIN. SIZES 1/4" x 7/8" x 38"				
M	51	" " " Lever	1	263A5001						
M	52	" " " Jaws	2	A-11149 LINE 3	BAR STOCK	—				
	53	" " Valve Lever	—							
	54	" " " " Connection	—							
	55	**GROUP 30—CROSSHEAD**								
M	56	Crosshead	3	302B5017			—	30-15		
M	57	" Shoe	6	302A5016			30-16			
M	58	" " Bolts	6	302B5017		FIN. SIZES 8 3/4" x 3" DIA.				
M	59	" Pin	3	7812 SET 6		FIN. SIZES 1/2" x 1 1/2" x 5 1/2"				
M	60	" Key	3	302A5032	CHROME VANADIUM					
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 31—CYLINDER								
M	1	CYLINDER	2 R	313B5000			31-11	—		
M	2	"	1 L	"			31-12	—		
M	3	" Frame	2	313D5001			—	31-54		
M	4	" "	1	"			—	31-54		
	5	GROUP 32—CYLINDER DETAILS								
M	6	Cylinder Head	3	322A5032		—	32-36	—	—	—
M	7	" " Casing	3	322A5036	PRESSED STEEL	—	—	—	—	—
	8									
	9									
M	10	Steam Chest Cover	3	322A5017		—	32-57	—	—	—
M	11	" " Casing	3	7416 SET 8	PRESSED STEEL	—	—	—	—	—
	12	Valve Chamber Head								
	13	" " "								
	14	" " Cover								
	15	" " Bushing								
	16									
	17									
	18	GROUP 34—CYL BY-PASS & RELIEF VAL								
M	19	Steam Chest Relief Valve	3	7432 LINE 1	STICK BRASS				—	
M	20	" " " " Base	3	"					34-3	
M	21	" " " " Cap	3	"					34-2	
	22									
	23									
	24									
	25									
	26	GROUP 35—DIE WORK								
	27									
	28									
	29									
	30									
	31									
	32									
	33	GROUP 36—DOME								
M	34	Dome	1	139P5001		—	—	—	—	—
M	35	" Flange	1	362B5001						
M	36	" " Radius	—	32 3/4						
M	37	" Cap	1	362H5011						
M	38	" Ring	1	362B5010						
M	39	" Casing—~~Base~~	1	363A5015	PRESSED STEEL					
	40	" " —Shell	—							
	41	" " —Top	—							
M	42	" Flow Bowl	1	363A5015	SHEET STEEL	—	—	—	—	—
M	43	" " " Bracket	3	"		120-F-4	—	—	—	—
	44									
	45									
	46									
	47	GROUP 37—DRAWGEAR F & B								
M	48	Coupler F.	1	373A5002						
M	49	" B.	1	" B				37-14		
M	50	" Knuckles	2	372H5000				37-14		
M	51	" "	1	372B5000				37-H4		
M	52	" Lock	2	372A5008				37-4		
	53	" " Lifter						37-15		
	54	" Link								
	55	" Lever								
M	56	Uncoupling Shaft	1	214A5006		37A5015				
M	57	" "	1	213A5018		104-F-155				
M	58	" " Bracket	3	214A5006		104-F-191				
M	59	" " "	4	213A5018		104-F-97				
	60	Buffer	—							
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 37—DRAWGEAR (Cont.)								
	1	Drawhead	2	372~~A~~B 5030		—	—	37-51	—	—
	2	Draw Gear Brace								
	3	" " "								
	4	" " " Foot								
	5	" " " Foot								
	6	" " Back								
	7	" " Shims								
	8	" " Pin	2	A-10457 SET 3		2 3/4" × 2 1/2" DIA.		—		
	9	" " Frame—Front	1	373A 5007				37-320		
	10	" " " "	1	373B 5007				37-321		
	11	" " " —Rear	1	373C 5007				37-322		
	12	" " " "	1	373D 5007				37-323		
	13	" " Tie Plate	2	214A 5006		104 F 80		—		
	14	" " Friction Plate	8	A-10471				37-89		
	15	" " Sliding Bar	2	A-10457 SET 1				37-94		
	16	" " " "	2	" "				37-95		
	17	" " ~~Connecting Rod~~ PIN WASHER	4	" " 4		1" × 4 1/2" × 6"		—		
	18	" " FRAME SPREADER Pin	2	A-10415 STYLE 1				37-92		
	19	" " Yoke	2	214A 5006		104 F 85				
	20	" " " Block	2	A-10457 SET 2				37-93		
	21	" " " Followers	2	10464 " 1		104 F 95		—		
	22	" " " "	2	" " 2		104 F 96		—	—	—
	23	" " " Binder Plate	—							
	24	" " Carrier ~~Link~~ BAR	2	214A 5006		104-F-92				
	25	" " " Pin	—							
	26	" " " Plate	—							
	27	" Bar Guide	2	372B 5038		—		37-23		
	28	" " Pin COTTERS	4	A-10457 SET 6		145 F 1				
	29	" " Carry Iron	2	214A 5006		104 F 29				
	30	" " " " Bolt Liner	2	"		1/2" × 3" × 40"				
	31	" Pin—Front	1	—		104 F 9				
	32	" " —Back	1	—		104 F 9				
	33	Shackle Bar	1	10848 LINE 1		108 F 15				
	34	" " Key	1	"		108 F 20				
	35	" " Gibs	2	"		1" × 3" × 6"				
	36	" " Brace	1	10850 LINE 1		108 F 12				
	37	" " " Pad	1	"				37-77		
	38	" " " Pin	1	10851 LINE 3		108 F 25				
	39	" " Pin	1	"		108 F 28				
	40	Safety Link	2	10849 LINE 1		108 F 14				
	41	" " Pins	2	10851 " 2		108 F 26				
	42	" " "	2	" " 15		10851 LINE 15				
	43	**GROUP 39—ECCENTRICS**								
	44	ECCENTRIC—No. 1 Cylinder	1	392A 5019				39-66		
	45	" No. 3 Cylinder	1	"				39-66		
	46	" No. 2 Cylinder—Top	1	392A 5068				39-391		
	47	" No. 2 Cylinder—Bot.	1	"				39-392		
	48	" Key	2	"	CHROME VANADIUM MACH. STEEL					
	49	" Stud	2	"						
	50	ECCENTRIC STRAP Top	6	392A 5029				39-34		
	51	" " Bottom	6	"				39-35		
	52	" " Bolts	12	"				—		
	53	" " Liner	—							
	54	" " Filler	—							
	55									
	56	ECCENTRIC ROD	3	392A 5084		392A 5084				
	57	" "	3	392B 5084		392B 5084				
	58	" " Pin	3	393F 5000						
	59	" " "	3	393E 5000						
	60	" " Bolts	~~6~~ 12	8509 SET ~~6~~ 12						
	61	" " "	6	" " 8						

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 42—ERECTING CARDS								
	1	ERECTING PLAN—Elevation	/	428A5051		—	—	—	—	—
	2	GROUP 43—ERECTING CARDS								
	3	ERECTING PLAN—Sections	/	433C5052	—	—	—	—	—	—
	4									
	5	GROUP 44—EXHAUST PIPE & NOZZLES								
	6	EXHAUST Drop Pipe	/	442D5052			44-76-A			
	7	" " Pipe Flange	/	442A5056			44-69			
	8	" Nozzle	/	442A5062			44-68			
	9	" "	/	442B5062			44-113			
	10	" "	/	442C5062			44-114			
	11	" " Tip	—							
	12	" Extension	/	442A5051		—	44-70	—	—	—
	13	" Gland	—							
	14	" Reducer	/	442A5046			44-542			
	15	" " Gland	/	442A5018			44-533			
	16	" Pipe Elbow	/	442A5016			44-537			
	17	" " Joint Ring	/	792K5029			79-22			
	18	" "	/	442C5015	6" W.I. PIPE		—			
	19	" " Nipple	/	"			—			
	20	GROUP 45—FIREDOOR AND FIREBRICK								
	21	FIRE BRICK								
	22	" " Arch Tube								
	23	" " " " Setting								
	24	FIRE DOOR ASSEMBLY	/	452A5013						
	25	FIRE DOOR	/	452A5004			45-10			
	26	" " Frame	/	452A5001			45-9			
	27	" " Liner	/	452A5002			45-11			
	28	" " Latch	/	452A5005			127F4			
	29	" " " Handle	/	"			127F14			
	30	" " " Guide	/	452A5003			452A5003			
	31	" " ~~Shield~~ HINGE-PIN	/	—			45A7			
	32	" " Damper								
	33	" " " Bearing								
	34	" " " "								
	35	" " " Handle								
	36	" " " Thumb Nuts								
	37	" " Peep Hole Cover								
	38									
	39									
	40									
	41	GROUP 48—FRAME AND DETAILS								
	42	FRAME	/	488A5035			48-90			
	43	" Boiler Saddle	/	482A5098	25¼ TO 25 ¾" RAD.		48-91			
	44	" " "	/	"						
	45	" " Pad Clamp	2	482A5034	FIN. SIZES 1½" × 5½" × 7¼"					
	46	" " " "	2	482E5034						
	47	" " " "	4	482B5034	FIN. SIZES ⅞" × 5" × 6¼"					
	48	" " " "	4	482C5034	FIN. SIZES 1½" × 5½" × 10"					
	49	" Bolster Fill Blocks	4	482D5034	FIN. SIZES ⅞" × 5" × 12"					
	50	" Centre Plate	4	3805 LINE 1			48-83			
	51	" Side Bearing—Right	2	488E5088 482B6088	R		48-~~84~~ 101			
	52	" " " —Left	2	482D5088 482A5088	L		48-~~84~~ 101			
	53	" Spreader	2	488A5035	2 5/8" × 6" × 13 7/8" W.I. BLOCKS					
	54	" Truss Pad	/	"	2 5/8" × 5" × 13 7/8" W.I. "					
	55	" " "	4	482A5010						
	56	" " Head	4	482B5010						
	57	" " Post Head	4	12445 LINE 6			48-26			
	58	" " " Socket	4	12402			48-25			
	59	" " Rod Washers	4	482A5043						
	60	Main Truss Rod—Right	8	3560 LINE 1			48-28			
	61	" " " —Left	/	488A5035			48-14			
			/	"			48-43			
							—			
							—			

12445 LINE 6

2 ¾" DIA. LENGTH TO SUIT L

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 48—FRAME & DETAILS (Cont.)								
M	1	Truss Rod Ends	4F	488A5035		96" } x 2" DIA	—	—	—	—
M	2	" " "	4R	"		84" }	—	—	—	—
	3	" " "	—							
	4	" " "	—							
M	5	" " Columns	2	488A5035		18" } x 2" DIA.				
M	6	" " "	2	"		16" }				
M	7	" Post Guides	1 PAIR	12408 SET 8	PLATE					
	8	" " "	—							
M	9	Frame Brace	1	488A5035		110F51	Z	Z	Z	Z
M	10	" "	1R	"		110F60				
M	11	" "	1L	"		110F60				
	12	" "								
	13	" "								
	14	" "								
M	15	Frame Pit Irons	2	488A5035		48L5013	—	—	—	—
M	16	" " "	2	"		110F56	—	—	—	—
	17	" " "	—							
	18	" " "	—							
M	19	" End Casting	1	483A5034		—	—	48-116	—	—
	20	" " Timber Brace	—							
M	21	" Angle	8			5/8"x6"x6"-9 1/2" LONG.	Z	Z	Z	Z
M	22	" "	4			5/8"x6"x6"x12" L.				
M	23	" "	8			5/8"x3 1/2"x6"-9 1/2" L.				
M	24	" "	4			1/2"x3"x3"x11 3/4" L.				
M	25	" "	2			5/8"x3 1/2"x3 1/2"-7 1/2" L.				
	26	" "	—							
M	27	" Smoke Box Brace Pad	2	13007 SET 1		—	48-15	Z	Z	Z
M	28	EXPANSION PLATE	1 SET	483A5054	PLATE	—	—			
M	29	" " Angle	1 "	"		483A5054	—			
	30	FURNACE BEARER—Front								
	31	" " —Rear								
	32	" " Plate								
	33	" " Fill Blocks								
M	34	Boiler Pad—Right	3	482C5001		—	48-628	—	—	—
M	35	" " —Left	3	"		—	48-628	—	—	—
	36									
	37									
	38	**GROUP 49—GAUGES, TEMPLATES & JIGS**	—							
	39									
	40									
	41									
	42	**GROUP 50—GUIDES & ATTACHMENTS**								
M	43	Guide	6	A-502B5010	21390R changed to Oil Cups	—	50-16	—	—	—
	44									
	45									
	46	**GROUP 51—GRATE ARRANGEMENT**								
M	47	Grate Arrangement	1	A-11884		—	—	—	—	—
	48	**GROUP 52—GRATE DETAILS**								
	49									
	50									
M	51	Grate Bars	7	11820		—	52-186	—	—	—
	52	" "								
	53	" "								
	54	" Center Rail								
M	55	" Side "	1	~~11820~~	522A5142	—	52-184	Z	Z	Z
M	56	" " "	1	~~11820~~	"		52-185			
	57	" ~~Cover Plate~~ SHAKER PINS	~~2~~	~~8.CR 2 1/2 LONG~~						
	58	" " " " "	~~4~~	~~2" DIA X 2" LG~~						
	59	" Shaker Pins	~~4~~	~~1/4" DIA X 3"~~						
	60	" " "	—							
	61	" " "	—							

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 52—GRATE DETAILS (Cont.)								
M	1	Grate Dead Plate	— 1	A-11848 SET 11		—	52-322	—	—	—
M	2	" " "	— 1	" " 14		—	52-323	—	—	—
	3	" Drop "	1	532A5052		—	52-X			
	4	" Dump Shaft	1	A-11847 SET 8		X18F77	—			
	5	" " " Bearing	8	532B5093		—	52-X300			
	6	" " " "	—							
	7	" " " Links	8	532B5055		X18F73	—	—	—	—
	8	" " " Lever	1	5020		X18F74	—	—	—	—
	9	" " Lever	—							
	10	" Shaker Shaft Bracket	8	532A5109		—	52-X87	—	—	—
	11	" " " "	8	"		—	52-X088	—	—	—
	12	" " Lever	—							
	13	" " Shaft	8	532A5008		532A5008	—	—	—	—
	14	" " "	—							
	15	" " " Lever	1	532B5009		532B5018				
	16	" " " "	1	"		"				
	17	" " " Hand Lever	1	X18X8 LINE 6		X18F110				
	18	" " " " "	1	A-11847		118F375				
	19	" " Lever Connection	1	"		X18F145				
	20	" " " "	1	"		X18F377				
	21	" " Connection Bar	1	A-11842 SET 8		X18F411				
	22	" " " "	1	"		X18F423				
	23	**GROUP 53—H'NDRAIL & STEPS (En.&Tr)**								
	24	HAND RAIL	—	10010						
M	25	" " Bracket	2	10010 5034			53-10			
M	26	" " Balls	7	532B5034			53-4			
M	27	" " Columns	2	A-11404			53-7			
M	28	" " "	2	420-D-265			53-13			
M	29	" " "	2	532H5034			53-1			
M	30	" " "	6	532A5034			53-1			
M	31	" " " Blocks	2	532E5034			53-3			
	32	" " " "	—							
M	33	" " Flanges	1	532F5034		—	53-5			
M	34	Cab Handle—Right	1	532C5055		532C5055				
M	35	" " —Left	1	532K5051		532K5051				
M	36	Coal Bunk Handle—Right	1	532A5055		532A5055				
M	37	" " " —Left	1	532H5051		532H5051				
	38	Tank Handle	—							
M	39	End Timber Handle	1	214C5006		103-F-97				
M	40	" " "	1	213A5018		103-F-97				
M	41	" " " Bracket	1	214C5006		103-F-124				
M	42	" " " "	1	213A5018		103-F-124				
	43									
	44									
	45	Bottom Bracket Step	—							
M	46	Cab Step - RIGHT	1	A-11160 LINE 3	PLATE - WOOD TREAD	—				
M	47	" " - LEFT	1	533B5015		53B5002				
M	48	" " HANGER	1	"		53C5022				
M	49	" " - ON TRUCK	1	8711		—	53-99			
M	50	" " Brace	#1	533B5015	For Future	53F5040 A5032	—			
	51	" " "								
	52	Cylinder Step								
	53	" Hood Step								
	54	Generator Step								
M	55	End Timber Step—Front	4	214C5006		103-F-41				
M	56	" " " —Back	4	213A5018		103-F-41				
M	57	~~Headlight Step~~ " " - FRONT	1	214C5006		53A5009				
M	58	~~Pilot Step~~ " " - BACK	1	213A5018		53A5009				
M	59	SAND BOX STEP BRK'T.	1	533E5003		533E5003				
M	60	Sand Box Step	2	D-4141		—	53-14			
M	61	" " " Bracket	1	533B5003		533B5003	—			

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 54—HEADLIGHTS, LAMPS, PLATES, ETC.								
	1	Flag Socket	—							
	2	" "	—							
m	3	Headlight { ~~Oil~~ / Electric }	2	16" SUNBEAM WITH TURBO GENERATOR						
m	4	Headlight Bracket	1 Pr	5353 SET 11	PLATE					
m	5	" ~~Columns~~ "	1 "	10018 LINE 3	"					
m	6	" Shelf—Front	1	10020	"					
m	7	" " —Rear	1	10018 LINE 3	"					
m	8	Generator Bracket	2	10003		100F3				
m	9	" Shelf	1	"	$\frac{1}{4}$" x 15" x 18" PLATE					
m	10	Lamp	1	DAYTON ELECTRIC	PURCHASED					
m	11	"	1	" "						
m	12	" Bracket	1	542B5011		542B5011				
	13	" "	—							
m	14	Number Plate	1	542A5009					54-6	
m	15	" " Stud	1	A-12969	BAR STOCK				54-169	
m	16	Builder's Card	2	542A82					—	
m	17	Name Plate	2	B-11138			54-4		54-183	
m	18	Patent Plate	1	542A5006			—		—	
	19	Property Plate	—							
	20	Superheater Patent Plate	—							
m	21	Electrical Equipment	1 SET	54M05004						
	22									
	23									
	24	**GROUP 55—INJECTORS & FEED, WATER**								
m	25	Injectors	2	#8 NATHAN LIFTING LEVER HANDLE MONITOR TYPE #88"						
m	26	" Bracket	2	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP				
m	27	FEED PUMP SUCTION PIPE REDUCER	1	3½" x 2½" COMMERCIAL						
m	28	FEED PUMP DELIVERY BUSHING	1	1164 LINE 4			—	—	55-13	—
m	29	FEED PUMP CHECK VALVE	1	2" SWING FOR 200# PRESSURE			—	—	—	—
m	30	Injector Check Valve	2	2" SWING FOR 200# PRESSURE	↙ INLET FOR 2" COPPER PIPE - OUTLET FOR 2" IRON PIPE PURCHASED					
m	31	" " ~~Flange~~ SWIVELS	~~2~~	~~MANUFACTURERS NAME~~						
m	32	" Stop Valve	3 2	552E5010	PURCHASED		—	—	—	—
m	33	" CHECK NUT ~~Feed Pipe Strainer~~	~~2~~	~~MANUFACTURERS NAME~~						
m	34	" " Bracket	2	552A5005		—	55-92	—	—	—
m	35	" " " Cap	2	"		—	55-94	—	—	—
	36	" Pipe Hanger	—							
m	37	" Hose Connection	4	553A5001			—		55-69	
m	38	" " " Nuts	4	"			55-68		—	
m	39	" " " "	4	"			—		55-70	
m	40	FEED PUMP " Nipples	1	553A5000			—		55-46	
m	41	FEED PUMP " NUTS	2	553A5000			55-44		—	
m	42	" " " "	2	"			—		55-45	
m	43	" " " "	1	"			—		55-47	
	44	**GROUP 57—LAGGING & JACKET**								
m	45	Lagging (Boiler)	1 SET	57M05008		—				
	46	" Panel								
	47	" "								
	48	" "								
	49	" Angle Iron								
	50	" " "								
m	51	Jacket (Boiler)	1 SET	#22 PAINTED STEEL		—	—	—	—	—
	52	" Band	—							
m	53	" " Angle	4	57B5000		57B5000				
m	54	" Clamp	48	570D46		—				57-28
m	55	" "	6	572A5004		572A5004				—
m	56	Plug Casing	7	572A6		—				57-4
	57	" "								
m	58	~~Cover~~ PRESSURE PLATE FRAME	1	4200476		—	—	—	57-60	—
	59	Cylinder Lagging								
	60	" Jacket		572D5006						
m	61	" Hood	1	TO SUIT ERECT. SHOP	PLATE	—	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 58—LINK MOTION								
M	1	Link	3	583A5001		—	—	58-7	—	—
	2	" —Top Half	—							
	3	" —Bottom Half	—							
M	4	" Saddle	3	583A5001		81F15				
M	5	" " Bolts	3	8511 SET 12		—				
M	6	" " "	3	"		—				
M	7	" Block	3	582A5015		FIN. SIZES 2"x2 5/8"x3 3/4"				
M	8	" " Pin	3	8512 SET 3		—				
M	9	" " Plates	6	582A5015	C.R. STEEL	—				
	10	" " Ends	—							
M	11	" Hanger	3	582A5026		81-F-16	—	—	—	—
M	12	" " Pin	3	8513 SET 1		—	—	—	—	—
	13									
	14	GROUP 59—OIL CUPS & LUBRICATION								
M	15	Lubricator	1	NATHAN 4 FEED 1918 TYPE		—	—	—	—	—
M	16	" Bracket	1	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP	—	—	—	—
	17									
M	18	Bottom Bracket Oil Cup	4	592A5006		—	59-48	—	—	—
M	19	" " " " Cap	4	"		—	59-49	—	—	—
	20	" " " " Nut	—							
	21	" " " " Plug								
	22	" " " " Cover								
	23	" " " " "								
	24	" " " " Hinge Lugs								
	25	" " " " " "								
M	26	" " Grease Cup	4	592A5007		—	59-50	—	—	—
	27	" " " " Cap	—							
M	28	" " " " Nut	4	592A5007		—	59-51			
M	29	" " " " Plug	4	"		—	59-52			
M	30	Crosshead ~~Grease~~ Cup	3	#1-POWELL-PLAIN STEEL SHANK 1/4" PIPE THD'S.			—			
	31	" " " Cap	—							
	32	" " " Nut								
	33	Ecc. Strap Oil Cup								
	34	" " " " Cap								
	35	" " " " Nut								
	36	Gear Oil Cups								
	37	" " " Covers	—							
M	38	Guide ~~Grease~~ Cup	6	#3 POWELL PLAIN STEEL SHANK 1/2" PIPE THD.						
	39	" " Cap	6	592-A5026	R 18401	7-1-24			59-41	
	40	" " " Nut		4					59-42	
	41	Link Oil Cup								
	42	" " " Cap								
	43	" " " Nut								
M	44	Packing Oil Cup	3	592A5005		—	—	—	59-44	—
M	45	" " " Cap	3	"		—	—	—	59-45	—
	46	" " " Nut	—							
	47	Rod Oil Cup								
	48	" " " Cap								
M	49	" " " Plug	3	592A5025		—	59-355	—	—	—
	50	" " " Latch								
	51	" " " Spring								
	52	" " " Base								
	53	Tumb. Shaft Oil Cup								
	54	" " " " Cap								
	55	" " " " Nut								
M	56	Truck Box Oil Cup Cover—R. Box	6	5566 SET 6 TO SUIT TRUCK SHOP	R.H.	—	59-159	—	—	—
	57	" " " " " —L. Box	—							
M	58	" " " " " Hinge Plate	6	5566 SET 1			59-158	—	—	—
	59	Valve Stem Oil Cup								
M	60	Oil Can Shelf	1	592A5004		—	59-120	—	—	—
	61	" " " Bracket	—							

Oil Cups

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 60—OIL BURNER, ENGINE ONLY								
	1	Oil Burner								
	2	" " Arrangement								
	3	" " Support								
	4	" " Turret								
	5	" Cock Rod								
	6	" " " Jaw								
	7	" " " "								
	8	" " Shaft								
	9	" " " Arm								
	10	" " " Hanger								
	11	" " " Collar								
	12	" Pipe Support								
	13	" " "								
	14	" " Clamp								
	15	" " "								
	16	" Heater Support								
	17	" " Clamp								
	18	" Regulator Bracket								
	19	" " Shaft								
	20	" " " Arm								
	21	" " " Hanger								
	22	" " " Collar								
	23	" " " "								
	24	" " Quadrant								
	25	" " Lever								
	26	" " Latch								
	27	" " " Handle								
	28	" " " Spring								
	29	" " " Link								
	30	" " " Guide								
	31	" " " Pin								
	32	" " Lever Dowel								
	33	" " " Stop								
	34	" " " Thumb Nuts								
	35	" " " Adjusting Screw								
	36	" Damper Regulator Quadrant								
	37	" " " Handle								
	38	" " " Shaft								
	39	" " " " Bushing								
	40	" " " " Arm								
	41	" Heater								
	42	" " Stuffing Box								
	43	" " " " Follower								
	44	" " " " Nut								
	45									
	46									
	47									
	48									
	49									
	50	GROUP 61—PAINT'G, LETTER'G, NUM'G								
	51	Lettering								
	52	Numbering								
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 62—PILOT AND SNOW PLOWS								
	1	PILOT								
	2	Pilot Band								
	3	" Bottom Plate								
	4	" Corner Iron								
	5	" Brace								
	6	" "								
	7	" "								
	8	" "								
	9	" " Rod								
	10	" Knee								
	11	" "								
	12									
	13									
	14	Snow Plow	—							
	15									
	16									
	17	GROUP 63—PIPE FITTINGS								
	18	Air Gauge Fitting								
	19	" Pump Oil Fitting								
	20	" " " " Nut								
	21	" " " " Swivel								
	22	" " Exhaust Wye								
	23	" " Tee								
	24									
ED	25	INJ. DELIVERY PIPE PAD	2	D-42070 LINE 3	BRAZING METAL	—	—	—	63-304	—
M	26	Blower Fitting	1	632A5004		—	—	—	63-6	—
	27	" " Nut	—							
M	28	Brake Release Check	1	13523	STICK BRASS					
M	29	" " " Valve	1	"		—	—	—	63-64	—
	30	Brake Ex. Fitting								
	31	" " " Nut								
	32	Coal Sprinkler Fitting								
	33	" " " Nut								
	34	" " " Swivel								
M	35	Cylinder Oil Pipe Fitting	3 SET	632A5005	STICK BRASS	—	—	—	—	—
	36	" " " " Nut								
	37	" " " " "								
	38	" " " " Swivel								
	39	" " " Bracket								
	40	Angle Valve Nut								
	41	" " Swivel								
	42	Through Valve Nut								
	43	" " Swivel								
	44	Oil Cock Nut								
	45	" " Swivel								
	46	Lubricator Check								
M	47	Steam Brake Oil Fitting	1 SET	7138	STICK BRASS	—	—	—	—	—
	48	" " " " Nut	—							
	49									
	50	Check Pipe Union								
	51	" " " Nut								
	52	" " " Swivel								
	53	Oil Pipe Union								
	54	" " " Nut								
	55	" " " Swivel								
	56	Steam Pipe Union								
	57	" " " Nut								
	58	" " " Swivel								
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 63—PIPE FITTINGS (Cont.)								
	1	Pipe Clamp	7							
	2	" "								
	3	" "								
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14	**GROUP 64—PIPING ARRANGEMENTS**								
	15	Piping Arr'g. General	7							
	16	" " Air Brake								
	17	" " Cooling Pipes								
	18	" " Bet. Eng. and Tender								
	19	" " Oil Heater								
	20	" " Sprinkler								
	21	" " Steam Heat								
	22									
	23									
	24									
	25									
	26	**GROUP 65—PISTON AND ROD**								
M	27	PISTON HEAD	3	652 A 5134		—	65-100	Z	Z	Z
M	28	" Packing Rings, Material For	6	653 H 5000	Pot Pattern —	—	65-7			
M	29	" Rod	3	652 A 5015		FIN. SIZES 30 3/4 x 2 7/16 DIA	—			
	30									
	31									
	32									
M	33	PISTON ROD PACKING MAT'L FOR	18	652 M 5017	Pot Pattern 65-391		—	Z	Z	Z
M	34	Packing Rings	9 SET	7719 SET 2	652-C-5153 2 1/16 BABBITT (6 SET FOR EQUIPMENT)		—			
M	35	" Spring Washer	3	7759 " 3			65-44			
M	36	" Swab Cap	3	652 B 5091			—		65-26	
M	37	" ~~Follower~~ LOCK	3	652 G 5012						
M	38	" Stuffing Box	3	652 B 5055			65-41	Z	Z	Z
M	39	" " " Gland	3	652 B 5059			65-42			
M	40	" Vibrating Cups	3	652 A 5081			65-43			
M	41	" Spring	3	#13			—			
	42									
	43									
M	44	PACKING STUDS Piston Rod	12	7758 SET 4	—	—	—	—	—	—
	45	**GROUP 66—PLUGS**								
	46	Arch Tube Plug	—							
M	47	Back Head Plug (Prime)	3	1 7/8"-11 1/2 THDS. TAPER 3/4 IN 12" PURCHASED			—	—	—	—
	48	Crown Plug	—							
	49	Ecc. Strap Plug	—							
M	50	Firebox Plug (Prime)	4	1 7/8"-11 1/2 THDS. TAPER 3/4 IN 12" PURCHASED			—	—	—	—
	51	" "								
	52	Fusible Plug								
	53	Indicator Plug								
	54	Smoke Box Plug								
	55	Tube Sheet Plug								
	56	Test Plug								
M	57	Waist Plug (Prime)	5	1 7/8"-11 1/2 THDS. TAPER 3/4 IN 12" PURCHASED			—	—	—	—
	58	Washout Plug Valve								
	59	" " " Cap								
	60	" " Flange								
	61	" " "								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 68—REVERSE LEVER		683C5010.		83-F-120 for future Date 3-3-25.				
✓	1	Reverse Lever	1	8364 LINE 3		68A5003	—	—	—	—
✓	2	" " Arrangement	1	"						
✓	3	" " Handle	1	D-1315 LINE 3		—			68-3	
✓	4	" " Latch	1	3294		83F49 F.N. SIZES 1¼"×2"×3½"				
✓	5	" " " Guide	1	"						
✓	6	" " " Rod	1	"		83F109 F.N. SIZES 3¾"×1"×2 15/16"				
✓	7	" " " ~~Details~~ STEM GUIDE	1	"						
✓	8	" " Quadrant	1	8364		83F107				
✓	9	" " "	1	"		83F108				
✓	10	" " " Plate	1	8328 SET 7	PLATE	—				
	11	" " Foot Rest	—							
✓	12	" " Shaft	1	682B5006		682B5006	—	—	—	—
✓	13	" " " Length		15⅝" CTR TO CTR.						
	14	" " Arm								
	15	" " Fulcrum								
	16	" " " Bracket								
	17	" " " Pin								
✓	18	" " Shaft Stand	1	5471 SET 2		83F65				
✓	19	" " Quadrant Bracket	1	8364 LINE 3		109F170				
✓	20	" " " "	1	"		68C5012				
✓	21	" " " "	4	"		~~109F171~~ ~~109F172~~				
	22									
	23		-							
	24									
	25									
	26	GROUP 69—REVERSE SHAFT								
✓	27	TUMBLING SHAFT	1	692B5019	ANGLE A=1¾°	692B5019	—	—	—	—
	28	" " Arm	—							
	29	" " Collar	—							
✓	30	" " Box	3	8215 SET 4			69-10			
✓	31	" " " Cap	3	"			69-9			
✓	32	" " Coupling Ball	2	8316 SET 2			69-2			
✓	33	" " " Socket	2	"			69-3			
✓	34	" " " Cap	2	"			69-3			
	35	" " " Sleeve								
	36	" " " Conn.								
	37	" " " "								
	38	" " " Nut								
	39									
	40	GROUP 71—RUNNING BOARDS								
✓	41	RUNNING BOARD - ENGINE	1 SET	717A5018	WOOD	—	—	—	—	—
✓	42	" " - TENDER	1 SET	713A5034	WOOD	—	—	—	—	—
✓	43	" " DECK PLATE Bracket	1	3/16" x 30" x 60"	TANK STEEL	—	—	—	—	—
	44	" " FLOOR PLATE								
	45	" " "								
	46	" " "								
	47	" " "								
✓	48	" " BRKT Engine	1	A-10929 SET 1-LINE 1	PLATE	—	—	—	—	—
✓	49	" " " "	1	A-10929 " 2- " 2	PLATE					
✓	50	" " " "	4	A-10929 SET 3	PLATE					
✓	51	" " " "	7	488A5035		71-F-5004				
	52	" " " "								
	53	" " " "								
	54	" " " "								
✓	55	" " " Tender	1R	A-10929 SET 6-LINE 1	PLATE	—	—	—	—	—
✓	56	" " " "	1L	A-10929 " 6- " 2	PLATE					
✓	57	" " " "	2	A-10929 " 5- " 1	PLATE					
✓	58	" " " "	2	A-10929 " 5- " 2	PLATE					
✓	59	" " " "	1	854A5002		71B5000				
	60	" " " "	—							
	61	" " " "	—							

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 72—RODS								
M	1	Connecting Rods	3	8980 LINE 4		89 F 45			—	
M	2	" " Brass, Xhd End	3	722 A 5059					72-29	
M	3	" " " " "	3	"					72-29	
M	4	" " " Crank "	3	722 A 5023					72-62	
M	5	" " " " "	3	"					72-62	
	6									
M	7	Connecting Rod Strap	3	722 B 5084		722 B 5084 FIN. SIZES 1½" x 2¼" x 3"				
M	8	" " Wedge—Top	3	8980 LINE 4		FIN. SIZES 2" x 3½" x 4½"				
M	9	" " " —Bottom	3	"						
M	10	" " Key—Top	3	"		89 F 21				
	11	" " " —Bottom	—							
M	12	" " Wedge Liner	3	8980		FIN. SIZES ¼" x 3½" x 6¼"	—	—	—	—
	13									
	14									
	15									
	16	**GROUP 73—SAND BOX**								
M	17	Sand Box—Front	1	733 J 5000			—			
M	18	" " Base	1	733 A 5002			73-113			
M	19	" " Top	1	733 J 5000	PRESSED STEEL					
M	20	" " Lid	1	732 B 5000			73-31			
M	21	" " Valve	2	732 A 5022			73-4			
M	22	" " Lever—Short	1	733 J 5000			73-20			
M	23	" " " —Long	1	"		73 A 5000	—			
M	24	" " Rod Handle	1	732 A 5027			73-6			
M	25	" " Rigging	2	733 J 5000		1" x 1¼" x 17¾"	—			
M	26	" " Rod	1	3/8" PIPE TO SUIT ERECT. SHOP			—			
	27	Air Sander								
	28	" " Nozzle								
	29	Sand Box—Flue								
	30	" " Funnel								
	31	" " Scoop								
M	32	SAND BOX—Back	1	732 A 5032	PLATE	—	—	—	—	—
M	33	Back Sand Box Arrangement	1	12268			—			
M	34	" " " Base	2	732 B 5023			73-13			
M	35	" " " Top	2	732 A 5024			73-314			
M	36	" " " Covers	2	"			73-12			
M	37	" " " Valve	2	3257			73-10			
M	38	" " " Shaft Hanger	2	12226			73-114			
M	39	" " " " " Caps	2	"			69-8			
M	40	" " " Hand Lever	1	12268		122 F 104				
M	41	" " " " " Fulcrum	1	"		122 F 101				
M	42	" " " " " Rod	1	—		122 F 57				
	43	" " " Horiz. Lever								
	44	" " " " " Fulcrum								
	45	" " " " " Guide								
M	46	" " " Rod Jaws	4	12268		122 F 96				
M	47	" " " " "	2	"		122 F 97				
M	48	" " " Shaft	1	12261 LINE 1		122 F 105				
M	49	" " " " ~~Lever~~ BRACKET	1	12263 " 1		122 F 111				
	50	" " " " "	—							
M	51	" " " Valve Lever	2	12264 LINE 4		122 F 28				
M	52	" " " " Rod	1	12268		122 F 92				
M	53	" " " " "	1	"		122 F 93				
M	54	" " " " " Conn.	1	12262 LINE 1		122 F 115				
M	55	" " " Rod Bell Crank	1	12270 " 3		122 F 102				
M	56	" " " " " " Fulcrum	1	12268		122 F 14				
M	57	" " " Brace	2	—		122 F 87				
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 74—SHAFTS								
M	1	COUPLING RING —Front	2	743A5010				74-16	—	
M	2	" " Half "	4	743B5010				74-17	—	
M	3	" " Bushing "	8	742A5035				—	74-19	
M	4	" " Oil Cellar "	8	742A5034			74-18	—		
M	5	" " —No. 2	2	743C5010				74-21		
M	6	" " Half "	4	743D5010				74-22		
M	7	" " Bushing "	8	742A5036				—	74-24	
M	8	" " Oil Cellar "	8	742A5037			74-23	—	—	
	9	" " —No. 3								
	10	" " Half "								
	11	" " Bushing "								
	12	" " Oil Cellar "								
M	13	" " —Rear	2	743A5010				74-16	—	
M	14	" " Half "	4	743B5010				74-17	—	
M	15	" " Bushing "	8	742A5035				—	74-19	
M	16	" " Oil Cellar "	8	742A5034			74-18	—	—	
	17									
M	18	CRANK SHAFT	1	745A5010	#54	157F20	—	—	—	—
	19	Counterbalance								
	20	" Weight								
	21	" "								
	22	" "								
	23	" Yoke								
	24	" "								
M	25	Horn Coupling	1	742B5267		—		74-27		
M	26	" "	1	742B5199		—		74-179-A		
M	27	" " Key	2	9060 LINE 2		90F2		—		
	28									
	29									
M	30	LINE SHAFT—Front Truck	1	9160 LINE 1		FIN. SIZES 8 1/4" x 5" DIA.	—	—	—	—
M	31	" " —2nd "	1	"		FIN. SIZES 9 1/2" x 5" DIA.	—	—	—	—
	32	" " —3rd "								
M	33	" " —Rear "	1	9160 LINE 1		FIN. SIZES 8 7/8" x 5" DIA.	—	—	—	—
M	34	" " Bearings, Outside—Front	2	9214 SET 3	742A5311 R 24702 1-13-'30				74-37. ~~74-38~~	
M	35	" " " Inside "	2	"	"				74-37	
M	36	" " " Outside—2nd	2	"	superseded see new dwg 742 A5302			5/29/28 74-37	~~74-37.~~	
M	37	" " " Inside "	2	"	FOR NEW WORK USE 74-37 FOR BOTH INSIDE & OUTSIDE & OMIT LINER PLATE			R 18453. 742A5311	~~74-38~~	
	38	" " " Outside—3rd	—						74-37	
	39	" " " Inside "	—							
M	40	" " " Outside—R'r	2	9214 SET 3		—			74-37 ~~74-38~~	
M	41	" " " Inside "	2	"		—				
M	42	" " " Plate—Front	6	742B5084	PLATE	FIN. SIZES 1/4" x 5 1/2" x 10 1/2"			74-37	
	43	" " " " —2nd							—	
	44	" " " " —3rd								
	45	" " " " —Rear								
M	46	" " Collar	5	742C5218				74-373		
M	47	" " "	6	742B5214				74-584		
M	48	" " "	1	742B5093				74-211		
	49	" " "								
	50	" " "								
	51	" " "								
	52	" " "								
	53	" " "								
	54	" " "								
M	55	" " Coupling	3	742A5280		—	—		—	—
M	56	" " "	1	742A5261		—	—	74-27 74-179	—	—
	57	" " "								
	58	" " "								
	59	" " "								
	60	" " "								
	61	" " "								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 74—SHAFTS (Cont.)								
	1	LINE SHAFT Coupling Key								
	2	" " " "								
	3	" " " "								
M	4	" " Collar "	1	9160 LINE 1		FIN. SIZES 3¼ x 1⅞ x 54½"	—	—	—	—
M	5	" " Pinion	6	742B5016		—	—	74-165A	—	—
	6	" " "								
	7	" " "								
	8	" " "								
M	9	" " Washer	6 PR.	742C5147		—	74-142	—	—	—
	10	" " "								
	11	" " "								
	12	" " "								
M	13	GEAR RIM	6	743A5041				74-164		
M	14	" " Bolt	48	742B5254						
M	15	" " Key	24	8824 SET 8						
M	16	SQUARE SHAFT—Front	1	742K5250		742K5250				
M	17	" " —Back	1	742D5250		742D5250				
M	18	" " —Center	1	742E5245		742E5245				
	19	" "	—							
M	20	" " Sleeve	1	742C5110				74-281		
M	21	" " "	1	742A5110				74-315		
M	22	" " "	1	742B5181				74-458		
	23	" " "								
	24									
	25									
	26	GROUP 75—SMOKE BOX AND STACK								
M	27	SMOKE BOX ARRANGEMENT	1	753A5032		—				
M	28	" " Deflecting Plate	1 SET	"	PLATE	—				
M	29	Deflecting Plate Angle	1 "	"		753A5037				
M	30	Draft Pipe	1 "	"	PLATE	—				
M	31	" " Hanger	2	"		129F38				
M	32	" " "	2	"		129F39				
	33	" " "	—							
M	34	" " " Key Bolt	18	753A5032		75A5030	—	—	—	—
M	35	Netting Frame	2	"		129F81	—	—	—	—
	36	" Ring	—							
	37	Cinder Pocket	—							
M	38	" Pot Base	1	752A5052			75-137			
M	39	" " Lid	1	752A5042			75-8			
M	40	" " Hand Wheel	1	752A5043			75-9			
M	41	" " Yoke	1	752A5041		129F55	—			
	42	Cleaning Hole	—							
M	43	" " Flange	1	752A5056		—	75-17	—	—	—
M	44	" " Cover	1	752A5057		—	75-18	—	—	—
	45	Peep " Flange	—							
	46	" " Cover	—							
M	47	SMOKE BOX Brace—Right	1	TO SUIT ERECT. SHOP		130F38		—		
M	48	" " " —Left	1	" " " "		130F38		—		
M	49	" " " Pad	2	752A5047				75-10		
M	50	" " " Pin	2	13002 STYLE 2						
M	51	" " " Washer	2	13003 " 2						
M	52	SMOKE BOX FRONT	1	A-12964 LINE 1	PLATE	—				
M	53	" " " Door	1	" "	"	—				
	54	" " " Liner	—							
	55	" " Door Liner	—							
M	56	" " " Buttons	15	A-12952		—	75-455			
M	57	" " " Hinge	1	"		75A5000				
M	58	" " " "	1	"		75A5003				
M	59	" " " " Lug	1	"		—				75-25
M	60	" " " " "	1	"		—				75-26
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 75—SMOKE BOX & STACK (Cont.)			7-8-25. 1-16" RH.	cd 753-B-5024.	R-24196.			
M	1	SMOKE STACK (Type TAPER)	1	752B5023		———	75-28	———	———	———
	2	Smoke Stack Base	1	752A-5050			75-60			
	3	" " Extension								
	4	" " Top								
	5	" " Cone	1	12665			75-87			
	6	" " " Bracket								
	7	" " " Brace								
	8	" " " "								
	9	" " Cleaning Hole	2	752-C-5051			75-55			
	10	" " " " Cap	2	752A-5044			75-53			
	11	" " Hood								
	12	" " Ring Reading	2	753-B5024		75-A-5009				
	13	" " "								
	14	" " " Angle	1	753-B5024		75-A-5025				
M	15	" " Saddle	1	752A5075		———	75-67	———	———	———
	16									
	17									
	18	GROUP 76—SPRINGS								
M	19	Truck Bolster Springs	60	762A5002	PURCHASED 27037R		Z 1-19-26	Z	Z	Z
M	20	" Pedestal "	6	762A5008	"					
M	21	Drawgear Springs	2	M.C.B. CLASS-G	"					
	22									
	23									
	24									
	25									
	26	GR'P 78—STE. GAUGE SAF. VAL. & TUR.								
M	27	Steam Gauge	1	5½" ASHCROFT-BRASS RING						
	28									
M	29	Safety Valve	2	2" CONSOLIDATED TYPE "H" - 200# PURCHASED						
	30	" "								
	31	" " Elbow								
	32	" " Turret								
	33	" " " Bushing								
	34	" " " Ring								
	35	" " " Casing								
	36	" " " Flow-Bowl								
M	37	TURRET	1	783 N 5006		———	———	———	———	78-1
M	38	" Ball Joint	1	A-11424 SET 1						78-5
M	39	" Stuffing Box	1	782A5005						78-2
M	40	" " " Nut	1	"	STICK BRASS		Z	Z	Z	— Z
	41	" " " Follower	———							
M	42	" Master Valve	1	782A5005						78-3
M	43	" " " Nut	1	"	STICK BRASS					
M	44	" " " Stem	1	"	" "					
M	45	" " " Hand Wheel	1	"				27-14		
M	46	" Bonnet Ring	1	"				———		78-4
	47	Turret (Auxiliary)	———							
	48	GROUP 79—STEAM PIPES & TEE HEADS								
M	49	STEAM PIPES	1	793A5002		———	79-657	———	———	———
	50	" " Slip Joint								
	51	" " " " Gland								
	52	" " Elbow								
	53	" " " Support								
	54	" " Tee Head								
M	55	" " Joint Ring—Top	1	792A5042		———	79-658	———	———	———
M	56	" " " " —Bottom	1	792B5042	use A for future	———	79-658	———	———	———
	57	" " " "								
	58	" " " " Gland								
P	59	" " Casing	1	TO SUIT ERECT. SHOP PLATE.						
	60	" " Flange	1							
	61	" " Nipple								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 81—SUPERHEATER								
	1	Superheater Arrangement								
	2	" Header								
	3	" " Support								
	4	" " "								
	5	" Return Bends								
	6	" " "								
	7	" Tube End								
	8	" " Joint								
	9	" " Clamp								
	10	" " " Washer								
	11	" " " Bolt								
	12	" " " " Washer								
	13	" " Support								
	14	" " Bands								
	15	" Unit								
	16	" Damper								
	17	" " Cyl.								
	18	" " " Arm								
	19	" " " Support								
	20	" " Arm								
	21	" " Rod								
	22	" " Shaft								
	23	" " "								
	24	" " " Bearing								
	25	" " " "								
	26	" " " "								
	27	" " " "								
	28	" " " Link								
	29	" " Counterweight								
	30	" " " Arm								
	31	" " Hinge								
	32	" " Flag								
	33	" Deflector Handle								
	34	" " Clamp								
	35	" " Plate Stud								
	36	**GROUP 82—TANK VALVES**								
M	37	TANK Valve—Water	3	823A5006				82-22		
M	38	" " Body	2 1	823A5006 823B5006			82-23			
M	39	" " " Plate	3	"			82-19			
M	40	" " Bottom Plate	3	"			82-20			
M	41	" " Top "	3	"			82-18			
M	42	" " Cap	3	"			82-16		82-21	
M	43	" " Seat	3	"			—			
M	44	" " Stem	3	A-15147 STYLE1		151F2				
M	45	" " " Nut	3	823A5006			82-17			
M	46	" " " Handle	3	"			82-14			
M	47	" " " Clamp Nut	3	"			82-15			
M	48	" " Strainer	3	"			—			
	49	Siphon Arrangement	—							
M	50	Siphon	1	822A5000		—	82-83			
M	51	" Tube	1	"		—	82-30			
M	52	" ~~Pipe Flange~~ BRACKET	1	822C5005		822C5005	—			
	53	" Goose Neck								
	54	" Stand Pipe								
	55	" " " Flange								
	56	" " " "								
	57	" Hose Strainer								
M	58	" " " Body	1	15142 LINE1			82-24			
M	59	" " " Cap	1	"			82-25			
M	60	" " Nipple	2	11329 LINE4	4" PIPE		—			
M	61	" " Bracket	4			113F12 15				

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 82—TANK VALVES (Cont.)								
	1	Tank Valve—Oil								
	2	" " Seat								
	3	" " Cap Plate								
	4	" " Plate								
	5	" " Rod								
	6	" " Screen								
	7	" " Nut								
	8	" " Flange								
	9	" " Lever								
	10	" " Stem								
	11	" " " End								
	12	" " " Stuffing Box								
	13	" " " " " Nut								
	14	" " " " " Gland								
	15	" " " " " Follower								
	16	" Cock								
	17	" Cooler Cock								
	18	Tank Measuring Rod								
	19	" " " Flange								
	20	" " " Handle								
	21	" " " Guard								
	22	" " " "								
	23									
	24	**GROUP 83—TANK—ENGINE**								
M	25	Fuel Bunk	1	15193 LINE 1		—	—	—	—	—
M	26	" " Rack	1	A-15142 LINE 1	BAR IRON	—	—	—	—	—
	27	" " Tie Rod								
	28	" " Straps								
	29	" " Lugs								
M	30	" " Gate	1	TO SUIT ERECT. SHOP	WOOD	—	—	—	—	—
	31									
	32									
	33	**GROUP 85—TENDER FRAME**								
M	34	Tender Frame	1	854A5002		—				
M	35	" " Angle	10	"		5/8×6"×6"-9½" LONG				
M	36	" " "	4	"		5/8×3½×6"-9½" "				
M	37	" " "	8	"		5/8×3½×3½"-9½" "				
	38	" " "								
	39	" " Bolster—Top								
	40	" " " —Bot.								
	41	" " Brace								
	42	" " "								
	43	" " "								
M	44	Frame Centre Plate	1	487 C 5088		—	—	101 48-~~XXX~~	—	—
M	45	" End Casting	1	853B5001		—	—	85-21	—	—
	46	" " Timber Brace	—							
M	47	" Side Bearings	2	9618 SET 2		—	48-11	—	—	—
	48	**GROUP 87—TENDER DECK, TOOL BOX**								
	49	Tool Box								
	50									
	51	**GROUP 88—TENDER TANK**								
M	52	Tank—Water	1	883A5017		—				
M	53	" Material Bill	1 SET	M.O. 2578-B		151F97				
M	54	" Funnel	1	5091 LINE 3	PLATE	151F98				
M	55	" " Lid	1	"		151F96				
M	56	" " Hinge	2	"		—				
M	57	" " Handle	1	"		88A5001				
M	58	" " Hinge Lug	2	"		4705138				
M	59	" " " Pin	2	"						
M	60	" " Angle	1	"						
M	61	" Lug	4	A-15139 STYLE 2						

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 88—TENDER TANK (Cont.)								
M	1	Tank—Headlight Bracket	2	883A5017		100F13	Z	Z	Z	Z
M	2	" —Ladder	1 PR.	A-15102 LINE 2	1R	151F22				
	3	" "			1L	151F22				
	4	" —Coal Gate	—							
M	5	" —Fuel Rack	+	A-15156 LINE 1	BAR IRON	—	—	—	—	—
M	6	" —Shoveling Sheet	1	3/16 x 30" x 132 1/4"	TANK STEEL	—	—	—	—	—
M	7	" " "	1	3/16 x 30" x 139 1/2"	TANK STEEL	—	—	—	—	—
	8	Tank—Oil								
	9	" Material Bill								
	10	" Funnel								
	11	" " Cover								
	12	" " " Eye Bolts								
	13	" " " Tail Nuts								
	14	" " " Handle								
	15	" " Lug								
	16	" " "								
	17	" " Ring								
	18	" " Angle								
	19	" Lug								
	20	" "								
	21	**GROUP 91—THROTTLE & DRY PIPE**								
M	22	Throttle Arrangement	1	914A5008			—			
M	23	Throttle Valve	1	~~B-12124 SET 4~~	912A5079		91-7	Z	Z	Z
M	24	" Case	1	913A5020			91-462			
M	25	" Valve Stem	1	912A5052		912A5052	—			
	26	" " " Stop	—							
M	27	" Pipe Elbow	1	913A5020			91-463	—		
M	28	" Pipe Flange	1	912A5066			—	91-464		
M	29	" " Joint Ring	1	913A5020			79-655			
M	30	" Bell Crank	1	B-12161		B-12161				
M	31	" " " Fulcrum	1	912E5006		912E5006				
M	32	" Pipe Support	1	139M5001		91A5043				
M	33	" " Yoke	1	912A5071		91A5024				
	34	" " Bracket	—							
	35	" " "	—							
M	36	" Stuffing Box	1	912A5050		—	91-14	—	—	—
M	37	" " " Gland	1	"		—	91-15	—	—	—
	38	" " " Flange	—							
	39	" Baffle Plate								
	40	" " "								
	41	" " " Handle								
	42	" " " Angle								
	43	" " " Studs								
	44	" " " Nuts								
	45	" " " Keys								
M	46	THROTTLE LEVER	1	913D5018		91D5029			—	
M	47	Throttle Lever Handle	1	D-1315 LINE 3		FIN. SIZES 1 1/4 x 2 1/2 x 54"			68-3	
M	48	" " Latch	1	913D5018		91E5028				
M	49	" " " Rod	1	"		91B5016				
M	50	" " Links	2	"		—		91-21	—	
M	51	" " Quadrant	1	"						
M	52	" " Fulcrum	1	"		91B5030				
	53	" " Guide	—							
M	54	" " Rod	1	913D5018		91D5031	—	—	—	—
M	55	" " Support	1	—		121F75	—	—	—	—
	56	DRY PIPE								
	57	" " Ring								
	58	" " Support								
	59	" " "								
	60	" " Yoke								
	61	" " Elbow								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 92—TOOLS								
	1	Brake Shoes								
	2	Chisel—Cape								
	3	" —Flat								
	4	Hammer—Soft			Wood Handle					
	5	Jack Screw								
	6	" " Cap								
	7	" " Base								
	8	" " Collar								
	9	" "								
	10	" " Cap								
	11	" " Base								
	12	" " Collar								
	13	Journal Brass Rod								
	14	Packing Hook								
	15	" Spade								
	16	Pinch Bar								
	17	Jack Bar								
	18	Torch								
	19	" Cap								
	20	" Nozzle								
	21	Valve Tram								
M	22	Wrench List	1 SET	92 M.O. 5000		—	—	—	—	—
	23	Ash Hoe								
	24	" " Handle								
	25	Clinker Hook								
	26	Poker								
M	27	Wrecking Frogs	1 Pr.	#4 LIMA		—	—	—	—	—
	28	Grease	—							
M	29	~~Oil~~ TOOL EQUIPMENT	1 SET	923A5004		—	—	—	—	—
	30	GROUP 93—TRUCKS & DETAILS								
M	31	TRUCK Plan	3	938B5003		—	—	—	—	—
M	32	" Bolster	3 SET	A-9525 LINE 3		—	—	—	—	—
	33	" " End Casting—R.	—							
	34	" " " " —L.	—							
M	35	" " " Separator	6	932 A 5000		—	—	93-163	—	—
M	36	" " Spring Centers	120	A-9548		—	93-53	—	—	—
	37	" "	—							
	38	" "	—							
M	39	" " Brake Rod Roller	6	9843 SET 5		6½"×1¼"				
M	40	" " " " " Brkt.	12	"		98F30				
M	41	" " " Lever Guide	4	"		98F120				
M	42	" " " " "	2	"		98F121				
M	43	" Center Plate	3	932A5415				93-133		
M	44	" Side Bearing Base	6	932A5250			93-6			
M	45	" " " Block	2	932E5404			93-82			
			4	932F5404			93-134			
M	46	" Frame	1 PAIR	A-9791 LINE #5						
M	47	" "	1 "	" " 5						
M	48	" " Splice	1 "	" " #5						
	49	" " "	—							
M	50	" Right Arch Bar	3	A-9791 Ln 5		97F400				
M	51	" Left Arch Bar	3	"		"				
M	52	" Right Inverted Arch Bar	3	"		97F405				
M	53	" Left Inverted Arch Bar	3	"		"				
M	54	" Bottom Tie Bar	3	"		97F32				
M	55	" " " "	3	"		"				
M	56	" " " " Angle	3	"		97F31				
M	57	" " " " "	3	"		97F35				
M	58	" " " Fill. Block	6	"		1¼"×4"×12"				
M	59	" Column—Right	3	932L5081		—		93-170		
M	60	" " —Left	3	932H5298		—		93-172		
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 93—TRUCKS & DETAILS (Cont.)								
M	1	Truck Crosstie Bar—Top	2	9797 LINE 1		—	—	93-123	—	—
M	2	" " " "	4	932B5356		932B5356	—	—	—	—
	3	" " " " Angles	—							
	4	" " " " "	—							
M	5	" " " —Bottom	6	B-9700 LINE 1		97F555				
M	6	" " " WASHER	6	"		1¼"×3"×6¾"				
M	7	" " " " Fill Block	6	"		1¼"×3"×6"				
	8	" " " —Center	—							
	9	" " " "	—							
M	10	" Diagonal Braces	4R	932A5133		932A5133				
M	11	" " "	4L	"		"				
M	12	" " "	2 PAIR	932A5129		932A5129				
	13	" " "	—							
	14	" Equalizer	—							
M	15	" Gear Cover	6	93265376	PLATE	—	—	—	—	—
M	16	" " "	6	93265377	"	—	—	—	—	—
	17	" " "								
	18	" " "								
M	19	" " " Bracket	6	932A5378	PLATE	—				
M	20	" " " "	6	932B5378	"	—				
M	21	" " " "	6	932A5263	BAR IRON	5/8"×2"×30¼"				
M	22	" " " GUIDES	12	932A5260		932A5260				
	23	"	—							
M	24	" King Bolt	3	10153 SET 5		10153 SET 5				
M	25	" " " Key	3	" " 4		" " 4				
M	26	" Safety Chain—To Frame FRONT OF REAR TRK.	2	938B5003		101F106				
M	27	" " " " " REAR OF FRONT & FRONT OF CTR.	2	"		101F107				
M	28	" " " " " FRONT OF CTR. REAR OF FRONT	2	"		101F50				
	29									
	30									
M	31	TRUCK BOX—Right	6	933B5046		—	—	93-60-A	—	—
	32	" " "								
	33	" " "								
	34	" " "								
M	35	" " Cap—Right	6	932A5286		—	93-68	—	—	—
	36	" " " "								
	37	" " " "								
	38	" " " "								
M	39	" Pedestal	6	9306 933A5104		—	93-155	93-59		
M	40	" " Cap	6	932A5336						
M	41	" " " Shim	36	"		1/8"×1½"×6¾"				
M	42	" " " "	48	"		1/32"×1½"×6¾"				
	43	" " " "	—							
	44	" " " "	—							
M	45	" Box—Inside	6	932A5204 9326 SET 1		—	—	93-175		
M	46	" " Cap—Inside	6	9326 " 2 932A5455			93-176			
M	47	" Inside Box Spring Center	6	932B5313			93-25			
M	48	" " Thrust Plate	6	9305 SET A 932B5116			—		93-24 93-300 93-44	
M	49	" Journal Brass	13	932A5048 R16900, 4-7-24		SOLID BRASS	—			
	50	" " " Wedge	—							
	51									
	52									
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Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 94—VALVES—DISTRIBUTION								
	1	Piston Valve								
	2	" " Follower								
	3	" " T-Ring								
	4	" " Snap Ring								
M	5	Slide Valve	3	942A5017		—	94-53	—	—	—
M	6	" " Plate	3	"		—	94-54	—	—	—
	7	" " Packing Strip	—							
	8	" " " "	—							
M	9	" " Ring—Mat'l For	3	653H5001	Pot Pattern	—	65-103	—	—	—
M	10	" " Spring	3	#3		—	—	—	—	—
	11									
	12									
	13	VALVE STEM	—							
M	14	" " Crosshead	3	942A5043			94-4			
M	15	" " " Guide	3	942A5033			94-11			
M	16	" " " " Plate	6	"			94-10			
	17	" " " Gibs	—							
	18									
M	19	VALVE YOKE	3	942A5058		942A5058	—	—	—	—
	20	" " Block	—							
M	21	" " Key	3	8006 SET 2	CHROME VANADIUM	—	—	—	—	—
M	22	VALVE STEM PACKING	3 SET	GARLOCK 7/16 × 7/16	PURCHASED	—	—	—	—	—
	23	Packing Rings								
	24	" Spring Washer								
	25	" Swab Cup								
	26	" Vibrating Cup								
	27	" Follower								
M	28	" Stuffing Box	3	7721		—	65-124	—	—	—
M	29	" " " Gland	3	"		—	65-125	—	—	—
	30	" Spring	—							
M	31	" Studs, Valve Stem	9	7721		—	—	—	—	—
	32									
	33	GROUP 95—WHEELS AND TIRES								
M	34	Wheel	12	953H5019		—	95-358	—	—	—
M	35	Tire	12	A-9990	SEG. #114	—	—	—	—	—
	36	Hub Plate	—							
	37									
	38									
	39	GROUP 96—WHISTLE AND RIGGING								
M	40	WHISTLE	1	5" C.I. 5 CHAMBER CHIME - PURCHASED		—	—	—	—	—
	41	" Bowl	—							
	42	" Bell								
	43	" Valve								
	44	" Gland								
	45	" Nut								
	46	" Diaphragm								
M	47	" Lever	1	962A5010		962A5010	—	—	—	—
	48	" Elbow	—							
	49	" Rigging	—							
M	50	WHISTLE Hand Lever	1	A-11149		111-F-10	—	—	—	—
	51	" " " Fulcrum	—							
	52	" Rod	—							
M	53	" Bell Crank	1	A-11149		111-F-11	—	—	—	—
M	54	" Rod Thimble	1	122A4	BAR STOCK					
M	55	" " " Washer	1	"						
	56									
	57	GROUP 99—MISCELLANEOUS								
	58	SPEED RECORDER RIGGING	—							
	59									
	60									
	61									

CLASSIFICATION OF DRAWINGS
GEARED LOCOMOTIVE

Group No.	TITLE
10	Ash Pan and Oil Pan
11	Axles
12	Bell and Ringer Blow-off Cock—See 26 Blower Pipe Elbow—See 63
13	Boilers
14	Boiler Details and Attachments—Tubes and Flues. Boiler Checks—See 55
15	Bolts and Nuts, Studs, Pins and Bushings Boxes, Shay Engines—See 93
18	Brackets, Air and Steam Gauge Brackets, Shay Cylinder, Steam and Cylinder Bottom Brackets
20	Brake Equipment, Foundation, All Brake Equipment, Engine and Tender Brick Arch—See 45
21	Bumpers and Details By-pass Valve—See 34
22	Cabs
23	Cab Details, Apron, Brackets, Door Fixtures, Ventilator, etc. Cab Handle—See 53 Cab Lamp—See 54 Cab Tool Box—See 23 Cab Turret—See 78 Chafing Plate—See 48 Cinder Valve and Pipe—See 75 Clearances—See 98 Coal Pusher—See 88
26	Cocks and Valves, Cylinder and Blow-off Cocks, Globe Valves
27	Cocks and Valves, Gauge, Water and Special
28	Cock Rigging Connecting Rods—See 72 Coupler, Engine—See 37 Coupler, Tender—See 37
29	Crank Pins and Details
30	Crossheads, Arm, Pin, Key and Shoes Crossties—See 48
31	Cylinders and Barrel Bushings
32	Cylinder and Steam Chest Heads and Covers, Steam Chests and Bushings
34.	Cylinder By-pass, Relief, Vacuum and Drifting Valves
35	Die Work—Flanging Dies
36	Dome—Cap, Casing and Ring
37	Draw-Gear, Engine, Coupler, Uncoupling Rigging Front Buffers, Drawbars, Safety Chains and Bars All Drawgears F and B Drawgear, Tender—See 37 Draft Pipe—See 75 Dry Pipe—See 91
39	Eccentrics, Cranks, Straps and Rods Engine Truck—See 93
42	Erecting Cards—Elevations
43	Erecting Cards—Cross Sections
44	Exhaust Pipe and Nozzles Expansion Pad, Knee and Plate—See 48 Feed Water Attachments—See 55
45	Fire Door, Fire Brick and Tubes, Smoke Consumer Fire Box Ring—See 14 Fire Extinguisher—See 64
48	Frames and Details
49	Gauges, Templates and Jigs
50	Guides, Yoke and End
51	Grate Arrangement
52	Grate Details Hand Holes—See 66
53	Hand Rail and Steps, Engine and Tender
54	Headlights and Signal Attachments, Lamps, Electric Wiring, Builders License and Number Plates
55	Injectors, Boiler Checks and Strainers Keys—See 15

Group No.	TITLE
57	Lagging and Jacket Lamps—See 54
58	Link Motion Mud Drum—See 14 Number Plates—See 54
59	Oil and Grease Cups, Lubricator and Bracket, Oil Can Holder, Flange Lubricator
60	Oil Burning Attachments—Engine Oil Burning Attachments, Tender—See 82
61	Painting, Lettering and Numbering—Photo
62	Pilot and Snow Plows
63	Pipe Fittings and Clamps, Air, Steam, Water and Lubricator Pipe Fittings
64	Piping Arrangements, Engine and Tender, Air Brake, Cooling, Oil Heater, Sprinkler and Steam Heat Piping
65	Piston and Rod, Extensions, Rod Packing
66	Plugs, Hand Holes and Washout Push Pole Pocket—See 21
68	Reverse Lever, Screw and Pneumatic Gears
69	Reverse Shaft and Reach Rod
70	Rocker and Box
71	Running Boards & Brackets, Side and Deck Sheets
72	Rods—Connecting and Stubs Safety Valves—See 78
73	Sand Box, Sanders and Rigging Side Sheet, Cab—See 71 Signal Attachments—See 54
74	Shafts—Crank, Line, Square, Crank, Counterbalance, Couplings, Brasses, Pinions, Gears, etc.
75	Smoke Box Arrangement, Front and Door, Smoke Stack and Extensions, Smoke Box Braces Smoke Consumer—See 45 Speed Recorder—See 99
76	Springs Sprinkler—See 64 Steam Chests—See 32
78	Steam Gauge, Safety Valve and Turrets Steam Heat—See 64
79	Steam Pipes and Tee Heads Steps—See 53
80	Stoker and Details, Engine and Tender
81	Superheater, Header and Details Superheater Flues—See 14
82	Tank Valves—Oil and Water, Handle, Well, Goose Neck, Strainer, Hose
85	Tender Frames
87	Tender Deck, Tool Box
88	Tender Tank—Water and Oil, Filling Hole, Tank Funnel, Coal Gate, Coal Pusher Tender Truck—Shay Engines—See 93
91	Throttle and Dry Pipe—Lever, Supports, Sleeves Tires—See 95 Tool Boxes, Engine—See 23 Tool Boxes, Tender—See 87
92	Tools
93	Trucks and Details, Shay Engine, including Boxes and Bearings Tube Setting—See 14 Turret, Safety Valve—See 78 Turret, Air—See 20
94	Valves, Distribution—Stems, Rods, Valve Rod Crosshead and Packing Valve Rod Crosshead Guide—See 94 Waist Sheets—See 48
95	Wheels and Tires—Driving Engine, Truck, Trailing, Tender Wheels
96	Whistle and Rigging
97	Preliminary Designs and Propositions
98	Clearance and Wheel Base Diagrams
99	Miscellaneous

Material Specifications

Erecting Card